AXIS® Fixation System 510(k) Summary – K062254

JUN 1 6 2008

June 2008

I. Company:

Medtronic Sofamor Danek USA

1800 Pyramid Place

Memphis, Tennessee 38132 Telephone: (901) 396-3133

Contact:

Lee Grant

Sr. Regulatory Affairs Specialist

- II. Proposed Proprietary Trade Name: AXIS® Fixation System
- III. Classification Name(s): Spinal Interlaminal Fixation Orthosis; Single/Multiple Component Metallic Bone Fixation Appliances and Accessories; Pedicle Screw Spinal System; Class: II, III (for degenerative disc disease) and/or unclassified; Product Code(s): KWP,HRS, MNI, NKB, NKG; and Regulation No.: 888.3050, 888.3030, and/or 888.3070
- IV. Description: The AXIS® Fixation System consists of a variety of shapes and sizes of bone plates, screws, and associated instruments. Fixation is provided by bone screws inserted into the lateral masses of the cervical spine using a posterior approach.

The AXIS® Fixation System implant components are made of titanium alloy. Titanium alloy and stainless steel implants should not be used together in a spinal construct. The AXIS® Fixation System components are supplied non-sterile.

- V. Indications for Use: The AXIS® Fixation System may be used from the C2 to T3 (inclusive) spinal levels for the following indications: (1) trauma, including spinal fractures and/or dislocations; (2) cervical instability or deformity; (3) pseudarthrosis or failed previous fusions; and (4) degenerative disc disease (DDD) as defined by neck and/or back pain of discogenic origin as confirmed by radiographic studies; and/or degenerative disc disease of the facets with instability. Spinal screw fixation is to be achieved with posterior pedicle and/or lateral mass screws and plates implanted from C2 to T3 levels inclusively. Supplemental posterior fixation with the ATLAS™ Cable must be used. Refer to the ATLAS® Cable System package insert and surgical technique for further instructions. Additionally, the AXIS® Fixation System must be used with autograft or allograft.
- VI. Substantial Equivalence: The AXIS® Fixation System is substantially equivalent to other commercially available posterior cervical fixation systems and other pre-enactment devices including the TOWNLEY® Transfacetpedicular Fixation System (K953076, SE 2/19/97 and K021705, SE 07/24/02). Literature, mechanical test reports and clinical data were supplied in support of establishing a claim of substantial equivalence.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Medtronic Sofamor Danek % Mr. Lee Grant Senior Project Specialist, Regulatory Affairs 1800 Pyramid Place Memphis, Tennessee 38132

JUN 1 6 2008

Re: K062254

Trade/Device Name: AXIS® Fixation System Regulation Number: 21 CFR 888.3070

Regulation Name: Pedicle screw spinal system.

Regulatory Class: III

Product Code: NKB, NKG, MNI, HRS, KWP

Dated: March 14 2008 Received: March 18, 2008

Dear Mr. Grant:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

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This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Center for Devices and Radiological Health's (CDRH's) Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at (240) 276-3474. For questions regarding the reporting of device adverse events (Medical Device Reporting (MDR)), please contact the Division of Surveillance Systems at (240) 276-3464. You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at toll-free number (800) 638-2041or (240) 276-3150 or the Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Mark N. Melkerson

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Director

Division of General, Restorative and Neurological Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

510(k) Number (if known): K062254

Device Name: AXIS® Fixation System

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Prescription Use X (Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use _____(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)

Division of General, Restorative,

and Neurological Devices

510(k) Number-

K062254

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